$\textbf{Table S1} \ \text{The proportion of patients using } immunosuppressants in different post-transplant periods$

Dranautian of nationts	Post-transplant time		
Proportion of patients	≤6 months	>6 and ≤12 months	>12 months
In use	30 (61%)	8 (36%)	3 (4%)
Decrease in use	13 (27%)	2 (9%)	0%
Overall use*	43 (88%)	10 (45%)	3 (4%)
Out of use	6 (12%)	12 (55%)	66 (96%)

 $^{^{\}star}\!,$ including in use and decrease in use.

Characteristics	Pediatric allo-HSCT patients (n=126)		
Cnaracteristics	≤10 years (n=79) >10 years (n=47)		— Р
Age (years), median [IQR]	5.9 [3.5–7.2]	13.5 [11.2–14.9]	<0.001
Gender, n [%]			0.09
Male	54 [68]	25 [53]	
Female	25 [32]	22 [47]	
Underlying hematological disease, n [%]			0.01
Malignant diseases of hematopoietic system	41 [52]	30 [64]	
Nonmalignant diseases of the hematopoietic system	17 [21]	15 [32]	
Inherited metabolic diseases	11 [14]	2 [4]	
Primary immunodeficiency disease	10 [13]	0	
Conditioning regimen, n [%]			0.76
Chemotherapy with TBI	18 [23]	14 [30]	
Chemotherapy without TBI	61 [77]	33 [70]	
Donor type, n [%]	5.[]	55 [. 5]	0.02
MMUD/MUD	25 [31]	19 [41]	0.02
MMRD			
	25 [32]	18 [38]	
MRD	14 [18]	10 [21]	
UCB	15 [19]	0	
Source of stem cells, n [%]			0.001
PBSC	64 [81]	47 [100]	
UCB	15 [19]	0	
GvHD prophylaxis, n [%]			0.98
IST with ATG	64 [81]	38 [81]	
IST without ATG	15 [19]	9 [19]	
Transplant history, n [%]			0.79
≤6 months post-transplant	31 [39]	18 [38]	
>6 and ≤12 months post-transplant	15 [19]	7 [15]	
>12 months post-transplant	33 [42]	22 [47]	
Post-transplant interval time (months), median [IQR]			
Total	6.6 [5.8–22.6]	11.9 [3.6–24.3]	0.53
≤6 months	4.9 [3.2–5.9]	3.3 [3.2–4.9]	0.31
>6 and ≤12 months	6.5 [6.3–10.5]	7.8 [6.5–11.8]	0.36
>12 months	23.8 [19.4–29.7]	24.5 [21.9–52.7]	0.11
Immunosuppressant usage status at inclusion, n [%]		,	0.68
Out of use	45 [57]	24 [51]	0.00
Decrease in use	8 [10]	7 [15]	
In use	26 [33]	16 [34]	
	20 [33]	10 [54]	0.94
Type of immunosuppressants in use or decrease in use, n [%]	00 [05]#	40.5701#	0.84
Cyclosporin	29 [85]#	18 [78] #	
Mycophenolate mofetil	3 [9] #	3 [13] #	
Methylprednisolone	5 [15]#	1 [4] #	
Sirolimus	2 [6] #	2 [9] #	
Tacrolimus	2 [6] #	1 [4] #	
Ruxolitinib	3 [9] #	1 [4] #	
IVIG history, n [%]			0.84
No history	14 [18]	9 [19]	
Infusion	65 [82]	38 [81]	
Time since last infusion (months), median [IQR]	8.3 [2.9–20.7]	6.7 [0.5–21.1]	0.92
GvHD history, n [%]			0.64
Acute GvHD	33 [42]	23 [49]	
1	17	11	
II	14	9	
 IV	2	3	
Chronic GvHD	18 [23]	10 [21]	
GvHD status at inclusion, n [%]	10 [20]	10 [21]	0.28
	2A [A2]	20 [42]	0.20
No history	34 [43]	20 [43]	
Resolved GvHD	41 [52] 4 [5]	27 [57] 0	

^{*,} the proportion was based on the 34 population of ≤10 years and 23 population of >10 years including in use and decrease in use group.

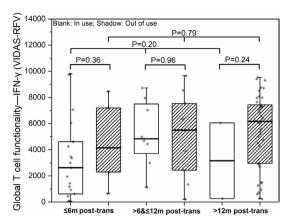


Figure S1 The boxplots represented the global T cell functionality in allo-HSCT children with (blank) and without (twill) immunosuppressant medication in different post-transplant periods (≤ 6 months post-trans, > 6 and ≤ 12 months post-trans and > 12 months post-trans).

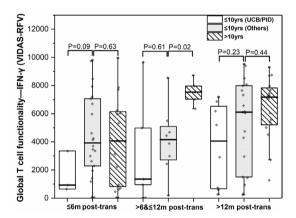


Figure S2 The boxplots represented the global T cell functionality in pediatric allo-HSCT patients in different post-transplant periods (\leq 6 months post-trans, >6 and \leq 12 months post-trans and >12 months post-trans). The patients were divided into those UCB/PID \leq 10 years old (blank), the others \leq 10 years (shadow) and those >10 years (twill).